



CERTIFICATE OF MAILING PURSUANT TO 37 C.F.R. §1.8

I, Caitlin L. Gardner, hereby certify that this correspondence, pursuant to 37 C.F.R. §1.8, is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on:

Date: June 24, 2005 By Caitlin Gardner

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Paul V. Cooper Docket No.: 23438.00043
Application No.: 10/773,118 Group Art Unit: 3746
Filing Date: February 4, 2004 Examiner:
TITLE: SUPPORT POST SYSTEM FOR MOLTEN METAL PUMP

TRANSMITTAL PURSUANT TO 37 C.F.R. §1.97-1.98

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Commissioner:

Submitted herewith pursuant to 37 C.F.R. §1.97(c) are (1) an Information Disclosure Statement, (2) an Information Disclosure Citation Form PTO-1449, and (3) copies of the foreign references cited on the enclosed Form PTO-1449.

This statement does NOT authorize charge of the issue fee. The Commissioner is hereby authorized to charge any fee specifically authorized hereafter, or any deficiency in the fee(s) filed, or asserted to be filed, or which should have been filed herewith or concerning any paper filed hereafter, and which may be required under 37 C.F.R. §§1.16-1.18 (deficiency only) now or hereafter relative to this application and the resulting official document under 37 C.F.R. §1.20, or credit any overpayment to Account No. 19-3878 for which purpose a duplicate copy of this sheet is attached.

Respectfully submitted,

June 23, 2005
Date

By Matthew J. Evans
Matthew J. Evans
Reg. No. 56,530

SQUIRE, SANDERS & DEMPSEY L.L.P.
Two Renaissance Square
40 North Central Avenue, Suite 2700
Phoenix, Arizona 85004-4498
(602) 528-4124



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Filing Date: February 4, 2004 Examiner:
TITLE: SUPPORT POST SYSTEM FOR MOLTEN METAL PUMP

**INFORMATION DISCLOSURE STATEMENT PURSUANT TO
37 C.F.R. §§1.97-1.98**

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Commissioner:

In accordance with the duty of disclosure under 37 C.F.R. § 1.56 and pursuant to 37 C.F.R. §§ 1.97-1.98, applicants hereby notify the U.S. Patent and Trademark Office of the documents listed on the attached Form PTO-1449. One copy of each foreign documents listed are submitted herewith. In addition, English language transcripts for each non-English document are also provided and are believed to supply a concise explanation of relevance.

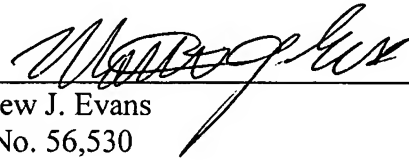
The submission of the listed documents is not intended as an admission that any such documents constitute prior art against the claims of the present application. Applicants reserve the right to dispute any of the listed documents as prior art during examination. Further, applicants do not waive any right to take any action that would be appropriate to antedate or otherwise remove any listed document as a competent reference against the claims of the present application. Furthermore, the submission of this Information Disclosure Statement is not to be construed as a representation that a search has been made or that no other material information may exist.

In accordance with 37 C.F.R. §1.97(b), since a first Office Action on the merits has not yet been issued in the subject application, neither a statement under 37 C.F.R. §1.97(e) nor payment of a fee is required for consideration of this Information Disclosure Statement.

Applicants respectfully submit that all pending claims are patentable over the foregoing references, alone or in combination. The Examiner is requested to initial the enclosed Form PTO-1449 and return a copy thereof to the undersigned.

Respectfully submitted,

June 23, 2005
Date

By 
Matthew J. Evans
Reg. No. 56,530

Enclosures: PTO-1449
Transmittal
13 Foreign References

Phoenix/325555.1

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|---|--|--|--|--|---|--|-------------------------------|--|
| Form PTO-1449 (REV. 8-83) | | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | | | ATTY. DOCKET NO. 23438.00043 | | APPLICATION NO. 10/773,118 | |
| INFORMATION DISCLOSURE CITATION (Use several sheets if necessary) | | | | | APPLICANT Paul V. Cooper | | | |
| | | | | | FILING DATE February 4, 2004 | | GROUP 3746 | |
| | | | | | SUPPORT POST SYSTEM FOR MOLTEN METAL PUMP | | | |

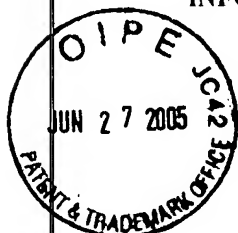
| U. S. PATENT DOCUMENTS | | | | | | | |
|------------------------|-----|--------------------|------------|-------------|-------|---------------|----------------------------------|
| EXAMINER INITIAL | REF | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB- CLASS | FILING DATE IF APPROPRIATE |
| | | 1,100,475 | 06-16-14 | Franckaerts | | | |
| | | 1,331,997 | 02-24-1920 | Neal | | | |
| | | 1,454,967 | 05-15-1923 | Gill | | | |
| | | 1,518,501 | 12-09-1924 | Gill | | | |
| | | 1,522,765 | 01-13-1925 | Wilke | | | |
| | | 1,526,851 | 02-17-1925 | Hall | | | |
| | | 1,669,668 | 05-15-1928 | Marshall | | | |
| | | 1,673,594 | 06-12-1928 | Schmidt | | | |

| FOREIGN PATENT DOCUMENTS | | | | | | | | |
|--------------------------|-----|--------------------|------------|-------------|-------|---------------|-----------------|----|
| | REF | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB- CLASS | TRANSLATION | |
| | | | | | | | YES | NO |
| | | 0665378A1 | 02-08-95 | EP | | | Yes Abstract | |
| | | 1,185,314 | 03-25-1970 | UK | | | | |
| | | 1,800,446 | 12-11-1969 | DE | | | Yes Abstract | |
| | | GB 2,217,784 A | 03-20-1989 | UK | | | | |
| | | 392,268 | 09-1965 | Switzerland | | | Yes Abstract | |

| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) | | |
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| EXAMINER INITIAL | REF | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB- CLASS | FILING DATE IF APPROPRIATE |
| | | 1,717,969 | 06-18-1929 | Goodner | | | |
| | | 1,896,201 | 02-07-1933 | Sterner-Rainer | | | |
| | | 2,038,221 | 04-21-1936 | Kagi | | | |
| | | 209,219 | 10-22-1878 | Bookwalter | | | |
| | | 2,280,979 | 04-28-1942 | Rocke | | | |
| | | 2,290,961 | 07-28-1942 | Heuer | | | |
| | | 2,488,447 | 11-15-1949 | Tangen et al | | | |
| | | 251,104 | 12-20-1881 | Finch | | | |
| FOREIGN PATENT DOCUMENTS | | | | | | | |
| | REF | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB- CLASS | TRANSLATION YES NO |
| | | 416,401 | 06-1974 | Soviet Union | | | Yes Abstract |
| | | 58-048796 | 03-1983 | Japan | | | Yes Abstract |
| | | 63-104773 | 5-1998 | Japan | | | Yes Abstract |
| | | 683,469 | 03-31-1964 | Canada | | | |
| | | 773,312 | 10-1980 | Soviet Union | | | Yes Abstract |
| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) | | | | | | | |
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| EXAMINER INITIAL | REF | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB- CLASS | FILING DATE IF APPROPRIATE |
| | | 2,515,478 | 07-18-1950 | Tooley et al. | | | |
| | | 2,528,210 | 10-31-1950 | Stewart | | | |
| | | 2,566,892 | 09-04-1951 | Jacobs | | | |
| | | 2,677,609 | 05-04-1954 | Moore et al. | | | |
| | | 2,698,583 | 01-04-1955 | House et al. | | | |
| | | 2,787,873 | 04-09-1957 | Hadley | | | |
| | | 2,808,782 | 10-08-1957 | Thompson et al. | | | |
| | | 2,821,472 | 01-28-1958 | Peterson et al. | | | |
| FOREIGN PATENT DOCUMENTS | | | | | | | |
| | REF | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB- CLASS | TRANSLATION |
| | | 90,756 | 01-1958 | Norway | | | YES NO |
| | | 942,648 | 11-27-1963 | U.K. | | | Yes Abstract |
| | | WO 98/25031 | 06-11-1998 | WO | | | |
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| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) | | | | | | | |
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|---------------------|-----|--------------------|------------|-----------------|-------|---------------|----------------------------------|
| | | 2,832,292 | 04-29-1958 | Edwards | | | |
| | | 2,865,618 | 12-23-1958 | Abell | | | |
| | | 2,901,677 | 08-25-1959 | Chessman et al. | | | |
| | | 2,948,524 | 08-09-1960 | Sweeney et al. | | | |
| | | 2,978,885 | 04-11-1961 | Davison | | | |
| | | 2,984,524 | 05-16-1961 | Franzen | | | |
| | | 2,987,885 | 06-13-1961 | Hodge | | | |
| | | 3,010,402 | 11-28-1961 | King | | | |

FOREIGN PATENT DOCUMENTS

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| | | 3,048,384 | 08-07-1962 | Sweeney et al. | | | |
| | | 3,070,393 | 12-25-1962 | Silverberg et al. | | | |
| | | 3,092,030 | 06-04-1963 | Wunder | | | |
| | | 3,227,547 | 01-04-1966 | Szekely | | | |
| | | 3,244,109 | 04-05-1966 | Barske | | | |
| | | 3,251,676 | 05-17-1966 | Johnson | | | |
| | | 3,255,702 | 06-14-1966 | Gehrm | | | |
| | | 3,272,619 | 09-13-1966 | Sweeney et al. | | | |

FOREIGN PATENT DOCUMENTS

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| EXAMINER INITIAL | REF | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB- CLASS | FILING DATE IF APPROPRIATE |
| | | 3,289,473 | 12-06-1966 | Louda | | | |
| | | 3,291,473 | 12-13-1966 | Sweeney et al. | | | |
| | | 3,400,923 | 09-10-1968 | Howie et al. | | | |
| | | 3,417,929 | 12-24-1968 | Secrest et al. | | | |
| | | 3,459,133 | 08-05-1969 | Scheffler | | | |
| | | 3,459,346 | 08-05-1969 | Tinnes | | | |
| | | 3,487,805 | 01-06-1970 | Satterthwaite | | | |
| | | 3,512,762 | 05-19-1970 | Umbricht | | | |
| FOREIGN PATENT DOCUMENTS | | | | | | | |
| | REF | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB- CLASS | TRANSLATION YES NO |
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| U. S. PATENT DOCUMENTS | | | | | | | |
| EXAMINER INITIAL | REF | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB- CLASS | FILING DATE IF APPROPRIATE |
| | | 3,512,788 | 05-19-1970 | Kilbane | | | |
| | | 3,575,525 | 04-20-1971 | Fox et al. | | | |
| | | 3,618,917 | 11-09-1971 | Fredrikson | | | |
| | | 364,804 | 06-14-1887 | Cole | | | |
| | | 3,650,730 | 03-21-1972 | Derham et al. | | | |
| | | 3,689,048 | 09-05-1972 | Foulard, et al. | | | |
| | | 3,715,112 | 02-06-1973 | Carbonnel | | | |
| | | 3,743,500 | 07-03-1973 | Foulard et al. | | | |
| FOREIGN PATENT DOCUMENTS | | | | | | | |
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| EXAMINER INITIAL | REF | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB- CLASS | FILING DATE IF APPROPRIATE | |
| | | 3,743,263 | 07-03-1973 | Szekely | | | | |
| | | 3,753,690 | 08-21-1973 | Emley et al. | | | | |
| | | 3,759,635 | 09-18-1973 | Carter et al. | | | | |
| | | 3,767,382 | 10-23-1973 | Bruno et al. | | | | |
| | | 3,776,660 | 12-04-1973 | Anderson et al. | | | | |
| | | 3,785,632 | 01-15-1974 | Kraemer, et al. | | | | |
| | | 3,814,400 | 06-04-1974 | Seki | | | | |
| | | 3,824,042 | 07-16-1974 | Barnes et al. | | | | |
| FOREIGN PATENT DOCUMENTS | | | | | | | | |
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| | | 3,836,280 | 09-17-1974 | Koch | | | |
| | | 3,839,019 | 10-01-1974 | Bruno et al. | | | |
| | | 3,871,872 | 03-18-1975 | Downing et al. | | | |
| | | 3,873,305 | 03-25-1975 | Claxton et al. | | | |
| | | 3,886,992 | 06-03-1975 | Maas et al. | | | |
| | | 3,915,694 | 10-28-1975 | Ando | | | |
| | | 3,954,134 | 05-04-1976 | Maas et al. | | | |
| | | 3,961,778 | 06-08-1976 | Carbonnel et al. | | | |
| FOREIGN PATENT DOCUMENTS | | | | | | | |
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|---------------------|-----|--------------------|------------|-------------------|-------|---------------|----------------------------------|
| | | 3,966,456 | 06-29-1976 | Ellenbaum et al. | | | |
| | | 3,972,709 | 08-03-1976 | Chin et al. | | | |
| | | 3,984,234 | 10-05-1976 | Claxton et al. | | | |
| | | 3,985,000 | 10-12-1976 | Hartz | | | |
| | | 3,997,336 | 12-14-1976 | van Linden et al. | | | |
| | | 4,003,560 | 01-18-1977 | Carbonnel | | | |
| | | 4,018,598 | 04-19-1977 | Markus | | | |
| | | 4,052,199 | 10-04-1977 | Mangalick | | | |

FOREIGN PATENT DOCUMENTS

| | REF | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB- CLASS | TRANSLATION | |
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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| Form PTO-1449 (REV. 8-83) | | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | | ATTY. DOCKET NO. 23438.00043 | | APPLICATION NO. 10/773,118 | | |
|---|-----|--|------------|---|-------|-------------------------------|----------------------------------|----|
| INFORMATION DISCLOSURE CITATION (Use several sheets if necessary) | | | | APPLICANT Paul V. Cooper | | | | |
| | | | | FILING DATE February 4, 2004 | | GROUP 3746 | | |
| | | | | SUPPORT POST SYSTEM FOR MOLTEN METAL PUMP | | | | |
| U. S. PATENT DOCUMENTS | | | | | | | | |
| EXAMINER INITIAL | REF | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB- CLASS | FILING DATE IF APPROPRIATE | |
| | | 4,055,390 | 10-25-1977 | Young | | | | |
| | | 4,068,965 | 01-17-1978 | Lichti | | | | |
| | | 4,091,970 | 05-30-1978 | Kimiyama et al. | | | | |
| | | 4,119,141 | 10-10-1978 | Thut et al. | | | | |
| | | 4,126,360 | 11-21-1978 | Miller et al. | | | | |
| | | 4,128,415 | 12-05-1978 | van Linden et al. | | | | |
| | | 4,144,562 | 03-13-1979 | Cooper | | | | |
| | | 4,169,584 | 10-02-1979 | Mangalick | | | | |
| FOREIGN PATENT DOCUMENTS | | | | | | | | |
| | REF | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB- CLASS | TRANSLATION | |
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| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) | | | | | | | | |
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| U. S. PATENT DOCUMENTS | | | | | | | |
| EXAMINER INITIAL | REF | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB- CLASS | FILING DATE IF APPROPRIATE |
| | | 4,192,011 | 03-04-1980 | Cooper et al. | | | |
| | | 4,213,091 | 07-15-1980 | Cooper | | | |
| | | 4,213,176 | 07-15-1980 | Cooper | | | |
| | | 4,219,882 | 08-26-1980 | Cooper et al. | | | |
| | | 4,244,423 | 01-13-1981 | Thut et al. | | | |
| | | 4,286,985 | 09-01-1981 | van Linden et al. | | | |
| | | 4,322,245 | 03-30-1982 | Claxton | | | |
| | | 4,347,041 | 08-31-1982 | Cooper | | | |
| FOREIGN PATENT DOCUMENTS | | | | | | | |
| | REF | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB- CLASS | TRANSLATION YES NO |
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| U. S. PATENT DOCUMENTS | | | | | | | |
| EXAMINER INITIAL | REF | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB- CLASS | FILING DATE IF APPROPRIATE |
| | | 4,351,514 | 09-28-1982 | Koch | | | |
| | | 4,360,314 | 11-23-1982 | Pennell | | | |
| | | 4,370,096 | 01-25-1983 | Church | | | |
| | | 4,372,541 | 02-08-1983 | Bocourt et al. | | | |
| | | 4,375,937 | 03-08-1983 | Cooper | | | |
| | | 4,392,888 | 07-12-1983 | Eckert et al. | | | |
| | | 4,410,299 | 10-18-1983 | Shimoyama | | | |
| | | 4,456,424 | 06-26-1984 | Araoka | | | |
| FOREIGN PATENT DOCUMENTS | | | | | | | |
| | REF | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB- CLASS | TRANSLATION YES NO |
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| EXAMINER INITIAL | REF | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB- CLASS | FILING DATE IF APPROPRIATE |
| | | 4,456,974 | 06-26-1984 | Cooper | | | |
| | | 4,470,846 | 09-11-1984 | Dube | | | |
| | | 4,489,475 | 12-25-1984 | Struttman | | | |
| | | 4,504,392 | 03-12-1985 | Groteke | | | |
| | | 4,537,624 | 08-27-1985 | Tenhover et al. | | | |
| | | 4,537,625 | 08-27-1985 | Tenhover et al. | | | |
| | | 4,556,419 | 12-03-1985 | Otsuka et al. | | | |
| | | 4,557,766 | 12-10-1985 | Tenhover et al. | | | |
| FOREIGN PATENT DOCUMENTS | | | | | | | |
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| EXAMINER INITIAL | REF | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB- CLASS | FILING DATE IF APPROPRIATE |
| | | 4,586,845 | 05-06-1986 | Morris | | | |
| | | 4,593,597 | 06-10-1986 | Albrecht et al. | | | |
| | | 4,598,899 | 07-08-1986 | Cooper | | | |
| | | 4,600,222 | 07-15-1986 | Appling | | | |
| | | 4,609,442 | 09-02-1986 | Tenhover et al. | | | |
| | | 4,611,790 | 09-16-1986 | Otsuka et al. | | | |
| | | 4,634,105 | 01-06-1987 | Withers et al. | | | |
| | | 4,640,666 | 02-03-1987 | Sodergard | | | |
| FOREIGN PATENT DOCUMENTS | | | | | | | |
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| | | SUPPORT POST SYSTEM FOR MOLTEN METAL PUMP | |

U. S. PATENT DOCUMENTS

| EXAMINER INITIAL | REF | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB- CLASS | FILING DATE IF APPROPRIATE |
|---------------------|-----|--------------------|------------|------------------|-------|---------------|----------------------------------|
| | | 4,651,806 | 03-24-1987 | Allen et al. | | | |
| | | 4,696,703 | 09-29-1987 | Henderson et al. | | | |
| | | 4,701,226 | 10-20-1987 | Henderson et al. | | | |
| | | 4,714,371 | 12-22-1987 | Cuse | | | |
| | | 4,717,540 | 01-05-1988 | McRae et al. | | | |
| | | 4,743,428 | 05-10-1988 | McRae et al. | | | |
| | | 4,747,583 | 05-31-1988 | Gordon et al. | | | |
| | | 4,770,701 | 09-13-1988 | Henderson et al. | | | |

FOREIGN PATENT DOCUMENTS

| | REF | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB- CLASS | TRANSLATION | |
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| EXAMINER INITIAL | REF | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB- CLASS | FILING DATE IF APPROPRIATE |
| | | 4,786,230 | 11-22-1988 | Thut | | | |
| | | 4,802,656 | 02-07-1989 | Hudault et al. | | | |
| | | 4,804,168 | 02-14-1989 | Otsuka et al. | | | |
| | | 4,810,314 | 03-07-1989 | Henderson et al. | | | |
| | | 4,834,573 | 05-30-1989 | Asano et al. | | | |
| | | 4,842,227 | 06-27-1989 | Harrington et al. | | | |
| | | 4,844,425 | 07-04-1989 | Piras et al. | | | |
| | | 4,851,296 | 07-25-1989 | Tenhover et al. | | | |
| FOREIGN PATENT DOCUMENTS | | | | | | | |
| | REF | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB- CLASS | TRANSLATION |
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| EXAMINER INITIAL | REF | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB- CLASS | FILING DATE IF APPROPRIATE |
| | | 4,859,413 | 08-22-1989 | Harris et al. | | | |
| | | 4,867,638 | 09-19-1989 | Handtmann et al. | | | |
| | | 4,884,786 | 12-05-1989 | Gillespie | | | |
| | | 4,898,367 | 02-06-1990 | Cooper | | | |
| | | 4,923,770 | 05-08-1990 | Grasselli et al. | | | |
| | | 4,930,986 | 06-05-1990 | Cooper | | | |
| | | 4,931,091 | 06-05-1990 | Waite et al. | | | |
| | | 4,940,214 | 07-10-1990 | Gillespie | | | |
| FOREIGN PATENT DOCUMENTS | | | | | | | |
| | REF | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB- CLASS | TRANSLATION YES NO |
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| EXAMINER INITIAL | REF | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB- CLASS | FILING DATE IF APPROPRIATE | |
| | | 4,940,384 | 07-10-1990 | Amra et al. | | | | |
| | | 4,954,167 | 09-04-1990 | Cooper | | | | |
| | | 4,973,433 | 11-27-1990 | Gilbert et al. | | | | |
| | | 4,989,736 | 02-05-1991 | Andersson et al. | | | | |
| | | 5,006,232 | 04-09-1991 | Lidgitt et al. | | | | |
| | | 5,028,211 | 07-02-1991 | Mordue et al. | | | | |
| | | 5,049,841 | 09-17-1991 | Cooper et al. | | | | |
| | | 506,572 | 10-10-1893 | Wagener | | | | |
| FOREIGN PATENT DOCUMENTS | | | | | | | | |
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| | | 5,078,572 | 01-07-1992 | Amra et al. | | | | |
| | | 5,088,893 | 12-18-1992 | Gilbert et al. | | | | |
| | | 5,092,821 | 03-03-1992 | Gilbert et al. | | | | |
| | | 5,098,134 | 03-24-1992 | Monckton | | | | |
| | | 5,099,554 | 03-31-1992 | Cooper | | | | |
| | | 5,131,632 | 07-21-1992 | Olson | | | | |
| | | 5,143,357 | 09-01-1992 | Gilbert et al. | | | | |
| | | 5,145,322 | 09-08-1992 | Senior, Jr. et al. | | | | |
| FOREIGN PATENT DOCUMENTS | | | | | | | | |
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| | | 5,152,631 | 10-06-1992 | Bauer | | | | |
| | | 5,158,440 | 10-27-1992 | Cooper et al. | | | | |
| | | 5,162,858 | 11-10-1992 | Shoji et al. | | | | |
| | | 5,165,858 | 11-24-1992 | Gilbert et al. | | | | |
| | | 5,172,458 | 12-22-1992 | Cooper | | | | |
| | | 5,177,304 | 01-05-1993 | Nagel | | | | |
| | | 5,191,154 | 03-02-1993 | Nagel | | | | |
| | | 5,192,193 | 03-09-1993 | Cooper et al. | | | | |
| FOREIGN PATENT DOCUMENTS | | | | | | | | |
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| U. S. PATENT DOCUMENTS | | | | | | | | |
| EXAMINER INITIAL | REF | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB- CLASS | FILING DATE IF APPROPRIATE | |
| | | 5,202,100 | 04-13-1993 | Nagel et al. | | | | |
| | | 5,203,681 | 04-20-1993 | Cooper | | | | |
| | | 5,209,641 | 05-11-1993 | Hoglund et al. | | | | |
| | | 5,215,448 | 06-01-1993 | Cooper | | | | |
| | | 5,268,020 | 12-07-1993 | Claxton | | | | |
| | | 5,286,163 | 02-15-1994 | Amra et al. | | | | |
| | | 5,298,233 | 03-29-1994 | Nagel | | | | |
| | | 5,301,620 | 04-12-1994 | Nagel et al. | | | | |
| FOREIGN PATENT DOCUMENTS | | | | | | | | |
| | REF | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB- CLASS | TRANSLATION | |
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| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) | | | | | | | | |
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| Form PTO-1449 (REV. 8-83) | | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | | | ATTY. DOCKET NO. 23438.00043 | | APPLICATION NO. 10/773.118 | |
|---|-----|--|------------|------------------------|---|---------------|----------------------------------|----|
| INFORMATION DISCLOSURE CITATION (Use several sheets if necessary) | | | | | APPLICANT Paul V. Cooper | | | |
| | | | | | FILING DATE February 4, 2004 | | GROUP 3746 | |
| | | | | | SUPPORT POST SYSTEM FOR MOLTEN METAL PUMP | | | |
| U. S. PATENT DOCUMENTS | | | | | | | | |
| EXAMINER INITIAL | REF | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB- CLASS | FILING DATE IF APPROPRIATE | |
| | | 5,308,045 | 05-03-1994 | Cooper | | | | |
| | | 5,310,412 | 05-10-1994 | Gilbert et al. | | | | |
| | | 5,318,360 | 06-07-1994 | Langer et al. | | | | |
| | | 5,322,547 | 06-21-1994 | Nagel et al. | | | | |
| | | 5,324,341 | 06-28-1994 | Nagel et al. | | | | |
| | | 5,330,328 | 07-19-1994 | Cooper | | | | |
| | | 5,354,940 | 10-11-1994 | Nagel | | | | |
| | | 5,358,549 | 10-25-1994 | Nagel et al. | | | | |
| FOREIGN PATENT DOCUMENTS | | | | | | | | |
| | REF | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB- CLASS | TRANSLATION | |
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| U. S. PATENT DOCUMENTS | | | | | | | | |
| EXAMINER INITIAL | REF | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB- CLASS | FILING DATE IF APPROPRIATE | |
| | | 5,358,697 | 10-25-1994 | Nagel | | | | |
| | | 5,364,078 | 11-15-1994 | Pelton | | | | |
| | | 5,369,063 | 11-29-1994 | Gee et al. | | | | |
| | | 5,383,651 | 01-24-1995 | Blasen et al. | | | | |
| | | 5,388,633 | 02-14-1995 | Mercer II et al. | | | | |
| | | 5,395,405 | 03-07-1995 | Nagel et al. | | | | |
| | | 5,399,074 | 03-21-1995 | Nose et al. | | | | |
| | | 5,407,294 | 04-18-1995 | Giannini | | | | |
| FOREIGN PATENT DOCUMENTS | | | | | | | | |
| | REF | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB- CLASS | TRANSLATION | |
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| U. S. PATENT DOCUMENTS | | | | | | | | |
| EXAMINER INITIAL | REF | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB- CLASS | FILING DATE IF APPROPRIATE | |
| | | 5,425,410 | 06-20-1995 | Reynolds | | | | |
| | | 5,431,551 | 07-11-1995 | Aquino et al. | | | | |
| | | 5,435,982 | 07-25-1995 | Wilkinson | | | | |
| | | 5,436,210 | 07-25-1995 | Wilkinson et al. | | | | |
| | | 5,443,572 | 08-22-1995 | Wilkinson et al. | | | | |
| | | 5,454,423 | 10-03-1995 | Tsuchida et al. | | | | |
| | | 5,468,280 | 11-21-1995 | Areaux | | | | |
| | | 5,470,201 | 11-28-1995 | Gilbert et al. | | | | |
| FOREIGN PATENT DOCUMENTS | | | | | | | | |
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| U. S. PATENT DOCUMENTS | | | | | | | |
| EXAMINER INITIAL | REF | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB- CLASS | FILING DATE IF APPROPRIATE |
| | | 5,484,265 | 01-16-1996 | Horvath et al. | | | |
| | | 5,489,734 | 02-06-1996 | Nagel et al. | | | |
| | | 5,491,279 | 02-13-1996 | Robert et al. | | | |
| | | 5,495,746 | 03-05-1996 | Sigworth | | | |
| | | 5,505,143 | 04-09-1996 | Nagel | | | |
| | | 5,509,791 | 04-23-1996 | Turner | | | |
| | | 5,537,940 | 07-23-1996 | Nagel et al. | | | |
| | | 5,543,558 | 08-06-1996 | Nagel et al. | | | |
| FOREIGN PATENT DOCUMENTS | | | | | | | |
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| U. S. PATENT DOCUMENTS | | | | | | | |
| EXAMINER INITIAL | REF | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB- CLASS | FILING DATE IF APPROPRIATE |
| | | 5,555,822 | 09-17-1996 | Loewen et al. | | | |
| | | 5,558,501 | 09-24-1996 | Wang et al. | | | |
| | | 5,558,505 | 08-24-1996 | Mordue et al. | | | |
| | | 5,571,486 | 11-05-1996 | Robert et al. | | | |
| | | 5,585,532 | 12-17-1996 | Nagel | | | |
| | | 5,586,863 | 12-24-1996 | Gilbert et al. | | | |
| | | 5,597,289 | 01-28-1997 | Thut | | | |
| | | 5,613,245 | 03-18-1997 | Robert | | | |
| FOREIGN PATENT DOCUMENTS | | | | | | | |
| | REF | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB- CLASS | TRANSLATION YES NO |
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| U. S. PATENT DOCUMENTS | | | | | | | |
| EXAMINER INITIAL | REF | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB- CLASS | FILING DATE IF APPROPRIATE |
| | | 5,622,481 | 04-22-1997 | Thut | | | |
| | | 5,629,464 | 05-13-1997 | Bach et al. | | | |
| | | 5,634,770 | 06-03-1997 | Gilbert et al. | | | |
| | | 5,640,706 | 06-17-1997 | Nagel et al. | | | |
| | | 5,640,707 | 06-17-1997 | Nagel et al. | | | |
| | | 5,640,709 | 06-17-1997 | Nagel et al. | | | |
| | | 5,655,849 | 08-12-1997 | McEwan et al. | | | |
| | | 5,662,725 | 09-02-1997 | Cooper | | | |
| FOREIGN PATENT DOCUMENTS | | | | | | | |
| | REF | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB- CLASS | TRANSLATION YES NO |
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| EXAMINER INITIAL | REF | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB- CLASS | FILING DATE IF APPROPRIATE |
| | | 5,676,520 | 10-14-1997 | Thut | | | |
| | | 5,678,244 | 10-14-1997 | Shaw et al. | | | |
| | | 5,678,807 | 10-21-1997 | Cooper | | | |
| | | 5,679,132 | 10-21-1997 | Rauenzahn et al. | | | |
| | | 5,685,701 | 11-11-1997 | Chandler et al. | | | |
| | | 5,690,888 | 11-25-1997 | Robert | | | |
| | | 5,695,732 | 09-09-1997 | Sparks et al. | | | |
| | | 5,716,195 | 02-10-1998 | Thut | | | |
| FOREIGN PATENT DOCUMENTS | | | | | | | |
| | REF | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB- CLASS | TRANSLATION YES NO |
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| EXAMINER INITIAL | REF | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB- CLASS | FILING DATE IF APPROPRIATE | |
| | | 5,717,149 | 02-10-1998 | Nagel et al. | | | | |
| | | 5,718,416 | 02-17-1998 | Flisakowski et al. | | | | |
| | | 5,735,668 | 04-07-1998 | Klien | | | | |
| | | 5,735,935 | 04-07-1998 | Areaux | | | | |
| | | 5,741,422 | 04-21-1998 | Eichenmiller et al. | | | | |
| | | 5,744,117 | 04-28-1998 | Wilkinson et al. | | | | |
| | | 5,745,861 | 04-28-1998 | Bell et al. | | | | |
| | | 5,755,847 | 05-26-1998 | Quayle | | | | |
| FOREIGN PATENT DOCUMENTS | | | | | | | | |
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| EXAMINER INITIAL | REF | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB- CLASS | FILING DATE IF APPROPRIATE |
| | | 5,772,324 | 06-30-1998 | Falk | | | |
| | | 5,776,420 | 07-07-1998 | Nagel | | | |
| | | 5,785,494 | 07-28-1998 | Vild et al. | | | |
| | | 5,805,067 | 09-08-1989 | Bradley et al. | | | |
| | | 5,810,311 | 09-22-1998 | Davison et al. | | | |
| | | 5,842,832 | 12-01-1998 | Thut | | | |
| | | 585,188 | 06-29-1897 | Davis | | | |
| | | 5,858,059 | 01-12-1999 | Abramovich et al. | | | |
| FOREIGN PATENT DOCUMENTS | | | | | | | |
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| EXAMINER INITIAL | REF | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB- CLASS | FILING DATE IF APPROPRIATE |
| | | 5,864,316 | 01-26-1999 | Bradley et al. | | | |
| | | 5,866,095 | 02-02-1999 | McGeever et al. | | | |
| | | 5,875,385 | 02-23-1999 | Stephenson et al. | | | |
| | | 5,935,528 | 08-10-1999 | Stephenson et al. | | | |
| | | 5,944,496 | 08-31-1999 | Cooper | | | |
| | | 5,947,705 | 09-07-1999 | Mordue et al. | | | |
| | | 5,949,369 | 09-07-1999 | Bradley et al. | | | |
| | | 5,951,243 | 09-14-1999 | Cooper | | | |
| FOREIGN PATENT DOCUMENTS | | | | | | | |
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| EXAMINER INITIAL | REF | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB- CLASS | FILING DATE IF APPROPRIATE | |
| | | 5,993,726 | 11-30-1999 | Huang | | | | |
| | | 5,993,728 | 11-30-1999 | Vild | | | | |
| | | 5,995,041 | 11-30-1999 | Bradley et al. | | | | |
| | | 6,024,286 | 02-15-2000 | Bradley et al. | | | | |
| | | 6,027,685 | 02-22-2000 | Cooper | | | | |
| | | 6,036,745 | 03-14-2000 | Gilbert et al. | | | | |
| | | 6,074,455 | 06-13-2000 | van Linden et al. | | | | |
| | | 6,093,000 | 07-25-2000 | Cooper | | | | |
| FOREIGN PATENT DOCUMENTS | | | | | | | | |
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| Form PTO-1449 (REV. 8-83) | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | ATTY. DOCKET NO. 23438.00043 | APPLICATION NO. 10/773,118 |
| INFORMATION DISCLOSURE CITATION (Use several sheets if necessary) | | APPLICANT Paul V. Cooper | |
| | | FILING DATE February 4, 2004 | GROUP 3746 |
| | | SUPPORT POST SYSTEM FOR MOLTEN METAL PUMP | |

U. S. PATENT DOCUMENTS

| EXAMINER INITIAL | REF | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB- CLASS | FILING DATE IF APPROPRIATE |
|---------------------|-----|--------------------|------------|---------------------|-------|---------------|----------------------------------|
| | | 6,096,109 | 08-01-2000 | Nagel et al. | | | |
| | | 6,019,576 | 02-01-2000 | Thut | | | |
| | | 6,113,154 | 09-05-2000 | Thut | | | |
| | | 6,123,523 | 09-26-2000 | Cooper | | | |
| | | 6,152,691 | 11-28-2000 | Thut | | | |
| | | 6,187,096 | 02-13-2001 | Thut | | | |
| | | 6,217,823 | 04-17-2001 | Vild et al. | | | |
| | | 6,231,639 | 05-15-2001 | Eichenmiller et al. | | | |

FOREIGN PATENT DOCUMENTS

| | REF | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB- CLASS | TRANSLATION | |
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| U. S. PATENT DOCUMENTS | | | | | | | | |
| EXAMINER INITIAL | REF | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB- CLASS | FILING DATE IF APPROPRIATE | |
| | | 6,243,366 | 06-05-2001 | Bradley et al. | | | | |
| | | 6,250,881 | 06-26-2001 | Mordue et al. | | | | |
| | | 6,254,340 | 07-03-2001 | Vild et al. | | | | |
| | | 6,270,717 | 08-07-2001 | Tremblay et al. | | | | |
| | | 6,280,157 | 08-28-2001 | Cooper | | | | |
| | | 6,298,759 | 09-25-2001 | Thut | | | | |
| | | 6,303,074 | 10-16-2001 | Cooper | | | | |
| | | 6,345,964 | 02-12-2002 | Cooper | | | | |
| FOREIGN PATENT DOCUMENTS | | | | | | | | |
| | REF | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB- CLASS | TRANSLATION | |
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| U. S. PATENT DOCUMENTS | | | | | | | | |
| EXAMINER INITIAL | REF | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB- CLASS | FILING DATE IF APPROPRIATE | |
| | | 6,358,467 | 03-19-2002 | Mordue | | | | |
| | | 6,398,525 | 06-04-2002 | Cooper | | | | |
| | | 6,439,860 | 08-27-2002 | Greer | | | | |
| | | 6,451,247 | 09-17-2002 | Mordue et al. | | | | |
| | | 6,457,950 | 10-01-2002 | Cooper et al. | | | | |
| | | 6,464,458 | 10-15-2002 | Vild et al. | | | | |
| | | 6,495,948 | 12-17-2002 | Garrett, III | | | | |
| | | 6,497,559 | 12-24-2002 | Grant | | | | |
| FOREIGN PATENT DOCUMENTS | | | | | | | | |
| | REF | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB- CLASS | TRANSLATION | |
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| EXAMINER INITIAL | REF | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB- CLASS | FILING DATE IF APPROPRIATE | |
| | | 6,524,066 | 02-25-2003 | Thut | | | | |
| | | 6,533,535 | 03-18-2003 | Thut | | | | |
| | | 6,551,060 | 04-22-2003 | Mordue et al. | | | | |
| | | 6,648,026 | 11-18-2003 | Look et al. | | | | |
| | | 6,679,936 | 01-20-2004 | Quackenbush | | | | |
| | | 6,689,310 | 02-10-2004 | Cooper | | | | |
| | | 6,695,510 | 02-24-2004 | Look et al. | | | | |
| | | 6,709,234 | 03-23-2004 | Gilbert et al. | | | | |
| FOREIGN PATENT DOCUMENTS | | | | | | | | |
| | REF | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB- CLASS | TRANSLATION | |
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| U. S. PATENT DOCUMENTS | | | | | | | | |
| EXAMINER INITIAL | REF | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB- CLASS | FILING DATE IF APPROPRIATE | |
| | | 6,716,147 | 04-06-2004 | Hinkle et al. | | | | |
| | | 6,723,276 | 04-20-2004 | Cooper | | | | |
| | | 6,805,834 | 10-19-2004 | Thut | | | | |
| | | 6,843,640 | 01-18-2005 | Mordue et al. | | | | |
| | | 6,848,497 | 02-01-2005 | Sale et al. | | | | |
| | | 6,869,271 | 05-24-2005 | Uchida et al. | | | | |
| | | 6,869,564 | 03-22-2005 | Gilbert et al. | | | | |
| | | 6,881,030 | 04-19-2005 | Thut | | | | |
| FOREIGN PATENT DOCUMENTS | | | | | | | | |
| | REF | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB- CLASS | TRANSLATION | |
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| EXAMINER INITIAL | REF | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB- CLASS | FILING DATE IF APPROPRIATE. | |
| | | 6,887,424 | 05-03-2005 | Ohno et al. | | | | |
| | | 6,887,425 | 05-03-2005 | Mordue et al. | | | | |
| | | 898,499 | 09-15-1908 | O'Donnell | | | | |
| | | 20010000465 | 04-26-2001 | Thut | | | | |
| | | 20010012758 | 08-09-2001 | Bradley et al. | | | | |
| | | 20020041788 | 04-11-2002 | Look et al. | | | | |
| | | 20020102159 | 08-01-2002 | Thut | | | | |
| | | 20020146313 | 10-10-2002 | Thut | | | | |
| FOREIGN PATENT DOCUMENTS | | | | | | | | |
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| EXAMINER INITIAL | REF | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB- CLASS | FILING DATE IF APPROPRIATE | |
| | | 20020187947 | 12-12-2002 | Jarai et al. | | | | |
| | | 20030059302 | 03-27-2003 | Mordue et al. | | | | |
| | | 20030075844 | 04-24-2003 | Mordue et al. | | | | |
| | | 20030151176 | 08-14-2003 | Ohno et al. | | | | |
| | | 20030185679 | 10-02-2003 | Mordue et al. | | | | |
| | | 20040007284 | 01-15-2004 | Look et al. | | | | |
| | | 20040022632 | 02-05-2004 | Thut | | | | |
| | | 20040056395 | 03-25-2004 | Thut | | | | |
| FOREIGN PATENT DOCUMENTS | | | | | | | | |
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| | | 20040076533 | 04-22-2004 | Cooper | | | | |
| | | 20040084172 | 05-06-2004 | Vincent et al. | | | | |
| | | 20040115079 | 06-17-2004 | Cooper | | | | |
| | | 20040199435 | 10-07-2004 | Abrams et al. | | | | |
| | | 20040123970 | 07-01-2004 | Neff | | | | |
| | | 20040215204 | 10-28-2004 | Davison et al. | | | | |
| | | 20040262825 | 12-30-2004 | Cooper | | | | |
| | | 20050013713 | 01-20-2005 | Cooper | | | | |
| FOREIGN PATENT DOCUMENTS | | | | | | | | |
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| EXAMINER INITIAL | REF | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB- CLASS | FILING DATE IF APPROPRIATE | |
| | | 20050013714 | 01-20-2005 | Cooper | | | | |
| | | 20050013715 | 01-20-2005 | Cooper | | | | |
| | | 20050053499 | 03-10-2005 | Cooper | | | | |
| | | 20050077730 | 04-14-2005 | Thut | | | | |
| | | 20050081607 | 04-21-2005 | Patel et al. | | | | |
| | | 20050116398 | 06-02-2005 | Tremblay | | | | |
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| FOREIGN PATENT DOCUMENTS | | | | | | | | |
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